

BS Environmental Sciences

| Course Title | Course Code | Course Type | Credit Hour |
|--|---------------------|-------------------|------------------------------|
| Semester 1 | | | |
| GEN(NS) | | General | <u>3</u> |
| Functional English | GENG-101 | General | <u>3</u> |
| Civics and Community Engagement | GCCE-101 | General | <u>2</u> |
| Islamic Studies / Ethics (for Non-Muslims) | GISL-101 / GETH-101 | General | <u>2</u> |
| Principles of Biology | ENSC-102 | Interdisciplinary | <u>3</u> |
| Introduction to Environmental Sciences | ENSC-101 | Major | <u>3</u> |
| Tarjuma-e-Quran | HQ-001 | Compulsory | <u>0</u> |
| APPLICATIONS OF INFORMATION AND COMMUNICATION TECHNOLOGIES | GICT-101 | Interdisciplinary | <u>3</u> |
| | | | Total Credit Hours 19 |
| Semester 2 | | | |
| GEN(AH) | | General | <u>2</u> |
| Quantitative Reasoning (I) | GQR-101 | General | <u>3</u> |
| Entrepreneurship | GENT-101 | General | <u>2</u> |
| Ideology and Constitution of Pakistan | GICP-101 | General | <u>2</u> |
| Basic Chemistry | ENSC-105 | Interdisciplinary | <u>3</u> |
| Fundamentals of Ecology | ENSC-104 | Major | <u>3</u> |
| Tarjuma-e-Quran | HQ-002 | Compulsory | <u>1</u> |
| Social Sciences-Anthropology | ENSC-106 | Interdisciplinary | <u>2</u> |
| Islamic Studies | GISL-101 | Interdisciplinary | <u>2</u> |
| | | | Total Credit Hours 20 |
| Semester 3 | | | |
| Applications of Information and Communication Technologies | GICT-201 | General | <u>3</u> |
| Expository Writing | GENG-201 | General | <u>3</u> |
| Introduction to Earth Sciences | ENSC-203 | Major | <u>3</u> |
| Environmental Chemistry | ENSC-202 | Major | <u>3</u> |
| Environmental Physics | ENSC-201 | Major | <u>3</u> |
| Tarjuma-e-Quran | HQ-003 | Compulsory | <u>0</u> |
| Ideology and Constitution of Pakistan | GICP-101 | Interdisciplinary | <u>2</u> |
| Time Management & Organizational Skills | ENSC-204 | Interdisciplinary | <u>2</u> |
| | | | Total Credit Hours 19 |
| Semester 4 | | | |
| GEN(SS) | | General | <u>2</u> |
| Quantitative Reasoning (II) | GQR-202 | General | <u>3</u> |
| Applied Ecology | ENSC-207 | Major | <u>3</u> |
| Air & Noise Pollution | ENSC-206 | Major | <u>3</u> |
| Mineral Resources & Environmental Sustainability | ENSC-205 | Major | <u>3</u> |
| Tarjuma-e-Quran | HQ-004 | Compulsory | <u>1</u> |
| Environmental Microbiology | ENSC-208 | Major | <u>3</u> |
| Civics & Community Engagement | GCCE-201 | Interdisciplinary | <u>2</u> |
| Entrepreneurship | GENT-201 | Interdisciplinary | <u>2</u> |
| | | | Total Credit Hours 22 |
| Semester 5 | | | |
| Environmental Economics | ENSC-305 | Interdisciplinary | <u>3</u> |
| Research Methods in Environmental Sciences | ENSC-304 | Interdisciplinary | <u>3</u> |
| Water Pollution | ENSC-303 | Major | <u>3</u> |
| Analytical Techniques in Environmental Sciences | ENSC-302 | Major | <u>3</u> |
| Solid Waste Management | ENSC-301 | Major | <u>3</u> |
| Tarjuma-e-Quran | HQ-005 | Compulsory | <u>0</u> |
| Initial Environmental Examination (IEE) | ENSC-306 | Major | <u>2</u> |
| | | | Total Credit Hours 17 |
| Semester 6 | | | |
| Interdisciplinary | | Interdisciplinary | <u>3</u> |
| Elective I | ENSC-311 | Major | <u>2</u> |
| Environmental Impact Assessment | ENSC-309 | Major | <u>3</u> |
| Water and Wastewater Treatment | ENSC-308 | Major | <u>3</u> |
| Sustainable Development | ENSC-307 | Major | <u>3</u> |
| Tarjuma-e-Quran | HQ-006 | Compulsory | <u>1</u> |
| DATA ANALYSIS | ENSC-310 | Major | <u>3</u> |
| Field work | ENSC-311 | Interdisciplinary | <u>3</u> |
| | | | Total Credit Hours 21 |
| Semester 7 | | | |
| Capstone Project | ENSC-405 | Major | <u>3</u> |
| Disaster Risk Management | ENSC-404 | Major | <u>3</u> |
| Health Safety & Environment | ENSC-403 | Major | <u>3</u> |
| Climate Change | ENSC-402 | Major | <u>3</u> |
| Environmental Management System | ENSC-401 | Major | <u>3</u> |
| Tarjuma-e-Quran | HQ-007 | Compulsory | <u>0</u> |
| Elective II | ENSC-405 | Major | <u>2</u> |
| | | | Total Credit Hours 17 |
| Semester 8 | | | |
| Thesis / Viva Voce Examination | ENSC-411 | Major | <u>6</u> |
| Elective III | ENSC-409 | Major | <u>3</u> |
| Environmental Governance Policy and Law | ENSC-408 | Major | <u>2</u> |
| Biodiversity & Conservation | ENSC-407 | Major | <u>3</u> |

| | | | |
|---|-----------------|-------------------|------------------------------|
| Geographical Information System & Remote Sensing | ENSC-406 | Major | 3 |
| Tarjuma-e-Quran | HQ-008 | Compulsory | 1 |
| Elective IV | ENSC-410 | Major | 3 |
| | | | Total Credit Hours 21 |
| | | | |
| | | | Signature |